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(71) Applicant (for all designated States except US): UNIVER-SITA' DEGLI STUDI DI ROMA "TOR VERGATA" [IT/IT]; Via Orazio Raimondo, 9, I-00173 Roma (IT).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SALVINI, Pietro

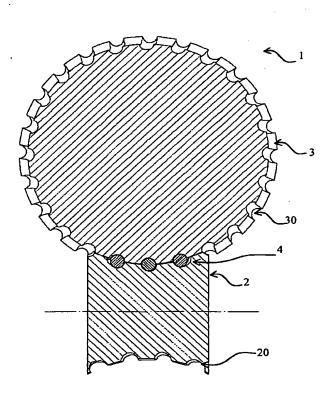
[IT/IT]; Università degli Studi di Roma "Tor, Vergata", Via Orazio Raimondo, 9, I-00173 Roma (IT). SERPELLA, Domenico [IT/IT]; Università degli Studi di Roma "Tor, Vergata", Via Orazio Raimondo, 9, I-00173 Roma (IT). VIVIO, Francesco [IT/IT]; Università degli Studi di Roma "Tor, Vergata", Via Orazio Raimondo, 9, I-00173 Roma (IT). VULLO, Vincenzo [IT/IT]; Università degli Studi di Roma "Tor, Vergata", Via Orazio Raimondo, 9, I-00173 Roma (IT).

(74) Agents: PAPA, Elisabetta et al.; Società Italiana Brevetti S.p.A., Piazza di Pietra, 39, I-00186 Rome (IT).

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(54) Title: METHOD FOR CUTTING WORM AND WORM GEAR IN A WORM AND GEAR REDUCTION UNIT WITH CIRCULATION OF BEARING BALLS AND RELATED CUTTING TOOLS



(57) Abstract: A method for cutting worm and worm wheel in a worm-gear reduction unit (1) with circulation of bearing balls, comprising the steps of: (a) obtaining races (30) for the bearing balls (4) onto the worm wheel (3); and (b) obtaining races (20) for the bearing balls (4) onto the worm (2), wherein step (b) provides the cutting of the races (20) according to a cutting profile substantially corresponding to the envelope of the subsequent positions assumed by the bearing balls within the worm wheel races being formed.



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